

Title (en)

HUMAN FACTORS APPROACH TO CONTROL CONTAMINANT CONCENTRATIONS IN AIRCRAFT SUPPLY AIR FROM ENGINE AND APU BLEED AIR AND GROUND AIR SOURCES, AND IN RECIRCULATED AIR BEING DELIVERED TO AIRCRAFT CABINS FOR THE OPTIMIZATION OF USER EXPERIENCE AND ENERGY CONSUMPTION

Title (de)

ANSATZ MIT MENSCHLICHEN FAKTOREN ZUR KONTROLLE VON SCHADSTOFFKONZENTRATIONEN IN DER FLUGZEUGZULUFT AUS DEM MOTOR, DER ZAPFLUFT AUS DER ELEKTRONISCHEN LUFTAUFBEREITUNGSEINHEIT, AUS BODENLUFTQUELLEN UND AUS DER UMLUFT, DIE IN DIE FLUGZEUGKABINEN GEFÜHRT WERDEN, ZUR OPTIMIERUNG DER BENUTZERERFAHRUNG UND ENERGIEVERBRAUCHS

Title (fr)

APPROCHE DE FACTEURS HUMAINS POUR LE CONTRÔLE DE CONCENTRATIONS DE CONTAMINANTS DANS L'AIR D'ALIMENTATION D'UN AÉRONEF PROVENANT DU MOTEUR, DE L'AIR DE PRÉLÈVEMENT DU GROUPE AUXILIAIRE DE BORD ET DES SOURCES D'AIR AU SOL, AINSI QUE DANS L'AIR RECIRCULÉ DÉLIVRÉ AUX CABINES D'AVION POUR OPTIMISER L'EXPÉRIENCE DES UTILISATEURS ET LA CONSOMMATION D'ÉNERGIE

Publication

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Application

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Priority

US 201514606617 A 20150127

Abstract (en)

An Environmental Control System includes a sensor, an air purification subsystem, and a controller in communication with the sensor and air purification subsystem. The sensor detects a contaminant in the air and generates a contaminant signal. The controller compares the contaminant signal to a predicted sensory response threshold. When the contaminant signal reaches the predicted sensory response threshold, the controller commands the air purification subsystem to alter a condition in the air.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

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DOCDB simple family (application)

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